Annals of HUMAN BIOLOGY

Journal of the Society for the Study of Human Biology

Edited by K. J. Collins, G. A. Harrison, J. M. Tanner

VOLUME 17 1990

Taylor & Francis
London • New York • Philadelphia

Subscription Information

Annals of Human Biology (ISSN 0301–4460) is published bimonthly by Taylor & Francis Ltd, 4 John Street, London WC1N 2ET, UK.

Annual Subscription 1991 £154 US$265.

Second class postage paid at Jamaica, New York 11431.

USA Postmaster: Send address changes to *Annals of Human Biology*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, New York 11003.

Air freight and mailing in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, New York 11003.

Printed in UK by Burgess Science Press, Rankine Road, Basingstoke, Hampshire RG24 0PR, UK. The paper used in this publication is 'acid free' and conforms to the American National Standards Institute requirements in this respect.

Dollar rates apply to subscribers in all countries except the UK and the Republic of Ireland where the pound sterling price applies. All subscriptions are payable in advance and all rates include postage. Journals are sent by air to the USA, Canada, Mexico, India, Japan and Australia. Subscriptions are entered on an annual basis, i.e. January to December. Payment may be made by sterling cheque, dollar cheque, international money order, National Giro, or credit card (Amex, Visa, Mastercard, Access).

Orders originating in the following territories should be sent direct to the local distributor. **Australia**: R. Hill & Son Ltd, 117 Wellington Street, Windsor, Victoria 3181. **New Zealand**: R. Hill & Son Ltd, Private Bag, Newmarket, Auckland 1. **India**: Universal Subscription Agency Pvt. Ltd, 101–102 Community Centre, Malviya Nagar Extn, Post Bag No. 8, Saket, new Delhi 110017. **Japan**: Kinokuniya Company Ltd, Journal Department, PO Box 55, Chitose, Tokyo 156. **USA, Canada and Mexico**: Taylor & Francis, Inc., 242 Cherry Street, Philadelphia, Pennsylvania 19106–1906. **UK and all other territories**: Taylor & Francis Ltd, Rankine Road, Basingstoke, Hampshire RG24 0PR.

Advertisements

All enquiries to Taylor & Franics Ltd, Basingstoke (0256) 840366 or Taylor & Franics New York Inc (212) 8671490.

Copyright © 1990 Taylor & Francis Ltd

All rights reserved. Authors are themselves responsible for obtaining permission to reproduce copyright material from other sources and are required to sign a form for agreement of the transfer of copyright. All requests from third parties to reprint material held in copyright by Taylor & Francis must be referred to the author for consent as a condition of the granting by Taylor & Francis of permission for reproduction. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, or by any means, electronic, electrostatic, magnetic, mechanical, photocopying, recording or otherwise, without prior permission in writing from the copyright holder. 0301–4460/90 $3·00 © 1990 Taylor & Francis Ltd.

Authorization of photocopying items for internal or personal use, or the internal or personal use of specific clients, is granted by Taylor & Francis Ltd for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee is paid directly to CCC, 27 Congress Street, Salem, Massachusetts 01970, USA. (For fee per article see copyright code above.) This consent does not extend to other kinds of copying, such as copying for general distributions, for advertising, for creating new collective works, or for resale. Fees for past articles are the same as those shown for current articles.

CONTENTS OF VOLUME 17

Volume 17 Number 1 January–February 1990

Height and mortality in the counties of England and Wales
D. J. P. Barker, C. Osmond and J. Golding 1

Isonymy in emigrants from Ferrara in 1981–1988
I. Barrai, G. Formica, R. Barale, C. Scapoli, R. Canell and M. Beretta 7

The adaptive significance of Polynesian body form
Philip Houghton 19

Anthropometric measurements of Saudi boys aged 6–14 years
Hazzaa M. Al-Hazza 33

Sibling similarity in annual growth increments in schoolchildren from a rural community in Oaxaca, Mexico
Bertis B. Little, Robert M. Malina and Peter H. Buschang 41

Age menarche in Bolivian girls of European and Aymara ancestry
Lawrence P. Greksa 49

Short report:
On correlations between adjacent velocities and accelerations in longitudinal growth data
G. A. Harrison and G. Brush 55

Book reviews 59

Corrigenda 69

List of Members SSHB 71

Volume 17 Number 2 March–April 1990

Familial transmission of longevity
Jean-Pierre Bocquet-Appel and Lucienne Jackobi 81

Consanguinity, spousal age at marriage and fertility in seven Pakistani Punjab cities
S. A. Shami, L. H. Schmitt and A. H. Bittles 97

Single occasion means of height and weight of Sir Lankan Tamil children from Jaffna
G. Pathmanathan, S. Prakash and S. R. Chhibber 107

Skin colour data from Nowshahr City, Northern Iran
Haideh Mehrai and Eric Sunderland 115

Genetic affinities of the Shetland Islanders
D. F. Roberts 121

Energetic cost of standard activities in Gurkha and British soldiers
S. S. Strickland and S. J. Ulijaszek 133

Age at menarche in Flemish girls: current status and secular change in the 20th century
Rita Wellens, Robert M. Malina, Gaston Beunen and Johan Lefevre 145

Mechanisms of natural selection in human rural populations, survey of a Mediterranean region (La Alpujarra, SE Spain)
Francisco Luna and Pedro Moral 153

Short report:
Age at menarche in Northwest Indian females and a review of Indian data
Krishan Sharma 159

Letter to Editor 163

Book reviews 165

Announcement 175

Volume 17 Number 3 May–June 1990

The cyclical nature of prepubertal growth
G. E. Butler, M. McKei and S. G. ratcliffe 177

A cross-sectional survey of upper and lower limb strength in boys and girls during childhood and adolescence
D. F. Parker, J. M. Round, P. Sacco and D. A. Jones 199

Digital dermatoglyphics of three Amerindian populations of the Brazilian Amazonia: a further test of the field theory
R. V. Santos, R. J. Meier and J. P. B. Vieira-Filho 213

Secondary sexual development of Cape Coloured boys following kwashiorkor
N. Cameron, J. Mitchell, D. Meyer, A. Moodie, M. D. Bowie, M. D. Mann and J. D. L. Hansen 217

α1-Protease inhibitor (*PI*) subtypes in seven populations of East Asia
N. Saha 229

Age variation in the upper limit of hearing and amplitude of eye accomodation in childhood and adolescence
I. Morioka, T. Shiraishi, K. Nishimura, M.Kuroda, Y. Kuriyama, K. Matsui, K. Matsumoto and S. Takeda 235

Short reports:
A new cathodal Gc variant in Australia
Lawrence Y. C. Lai, Jacques Constans and Gordon T. Archer 245

Comparative foot dimensions in Filipino rural children and Tokyo children
Ayano Kusumoto 249

Book reviews 257

Volume 17 Number 4 July–August 1990

Genetic variation in north-east England
J. S. Lanchbury, S. S. Papiha and D. F. Roberts 265

Biochemical values of immigrant groups in north-east France
Monique Vincent-Viry, Blandine Fournier, René Gueguen, Joseph Henry, Jean-Pierre Monneau and Gérard Siest 277

An investigation into the age of cessation of endocranial growth using the techniques of logetronic copying and photosubtraction
Judith Finlay and Andrew Richardson 289

The head circumference growth curve for Japanese children between 0–4 years of age: comparison with Caucasian children and correlation with stature
Sayumi Tsuzaki, Nobutake Matsuo, Masamine Saito and Mitsuru Osano 297

Comparisons of Lasker's coefficient of relationship in a Venezuelan town in two different periods
J. Pinto-Cisternas, E. Zimmer and I. Barria 305

Fertility and malaria in Sardinia
G. Zei, A. Lisa and P. Astolfi 315

Short report:
Fertility, mortality and maternal anaemic status in a village population of West Bengal, India
Premananda Bharati and Amitabhu Basu 331

Proceedings of the Society for the Study of Human Biology 337

Book reviews 341

Announcements 353

Volume 17 Number 5 September–October 1990

Skeletal maturity in Belgian youths assessed by the Tanner–Whitehouse method (TW2)
G. Beunen, J. Lefevre, M. Ostyn, R. Renson, J. Simons and D. Van Gerven 355

Reproductive versus chronologic age as a predictor of low birth weight, preterm delivery and intrauterine growth retardation in primiparous women
Laura E. Mitchell and Michael B. Bracken 377

Genealogical and genetical African admixture estimations, blood pressure and hypertension in a Caribbean community
P. Darlu, P. P. Sagnier and E. Bois 387

Age and sex differences in bone density of the second metacarpal in its midshaft cross-section
Kunihiko Kimura 399

Short-term variations in stature growth in Ethiopian and English children
G. A. Harrison, G. Brush, A. Almedom and T. Jewell 407

Marital correlation for anthropometric characteristics in Brazilian Indians
A. E. Stark, F. M. Salzano and F. J. Da Rocha 417

Motor performance during adolescence and age thirty as related to age at peak height velocity
J. Lefevre, G. Beunen, G. Steens, A. Claessens and R. Renson 423

Daily measurements of the heights of two children from June 1984 to may 1985
K. Ashizawa and M. Kawabata 437

Short report:
A relationship between bioelectrical impedance and total body water in young adults
P. S. W. Davies, S. E. Jagger and J. J. Reilly 445

Book reviews 449

Volume 17 Number 6 November–December 1990

A method for determining the dynamics and intensity of average growth
T. Gasser, A. Kneip and P. Ziegler 459

Non-parametric estimation of age-related centiles over wide age ranges
Hui Qi Pan, Harvey Goldstein and Qi Yang 475

Early childhood growth in patients with cystic fibrosis
P. J. Byard 483

Relationships between intrapopulational and interpopulational genetic diversity in man
Gregory Livshits and Masatoshi Nei 501

The onset of eruption of permanent teeth amongst South African Indian children
R. Blankenstein, P. E. Cleaton-Jones, P. K. Maistry, K. M. Luk and L. P. Fatti 515

Measurement error in human dental mensuration
J. A. Kieser, H. T. Groeneveld, J. McKee and N. Cameron 523

Red cell glucose-6-phosphate dehydrogenase phenotypes in several Mongoloid populations of eastern India: existence of a non-deficient fast variant in two Australasian tribes
N. Saha, S. H. Hong, H. A. Wong and J. S. H. Tay 529

Arm-span, height, and age in Black and White women
M. F. Steele and T. C. Chenier 533

Short report:
Inbreeding coefficients from isonymy in the Italian–Greek villages
G. Biondi, E. Perrotti, G. C. N. Mascie-Taylor and G. W. Lasker 543

Book reviews 547

Announcement 561

Subject Index 563

Index of Authors 565